

#### **NORTH CAROLINA**

Department of Transportation



















# Integrated Project Delivery Team

Paul Steinman, HNTB

November 6, 2018

# Integrated Project Delivery

### **PROJECT DELIVERY VISION:**

A CULTURE where we PROMISE WHAT WE ARE GOING TO DO and DELIVER WHAT WE PROMISE

#### THE IPD TEAM

- DOT staff working with nationally recognized experts
- Evaluating existing business practices
- Researching and assessing best practices
- Identifying opportunities for improvement
- Creating an integrated project management process
- Developing an implementation plan and training

The **Department has already begun to see the benefits of these efforts** and we anticipate full implementation to occur over the next 12 months.













# Initial Product, Project Development Process

#### **Project Development Process**

#### **PURPOSE & OVERVIEW**

The purpose of this guide is to provide NCDOT Project Managers with a standardized reference tool to help guide them through the steps of the NCDOT project development process.

#### Who is this guide for?

- NCDOT Project Management Unit staff
- NCDOT Division Project Managers
- · Private Engineering Firm (PEF) Project Managers that work on behalf of NCDOT

#### How to use this guide

This guide contains informational text, diagrams, and links to other policy and procedures documents, work product templates, and other useful resources.

This guide is an interactive PDF - buttons are hyperlinked – click on them to navigate within the document and to access additional resources.



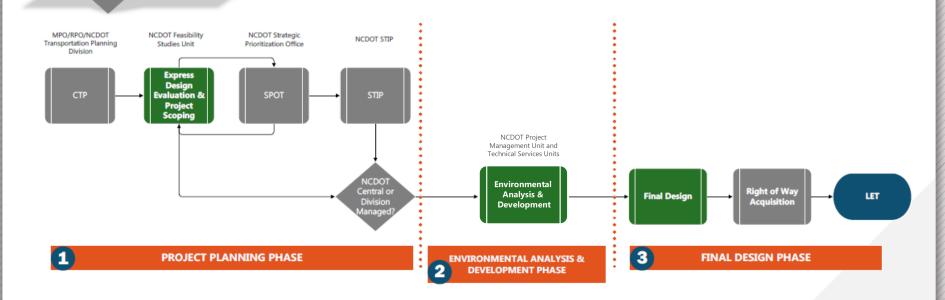
Purpose

Provide Project Managers with a standardized reference tool

- NCDOT Project Managers
- Audience | Private Engineering Firm Project Managers



#### Project Development Overview



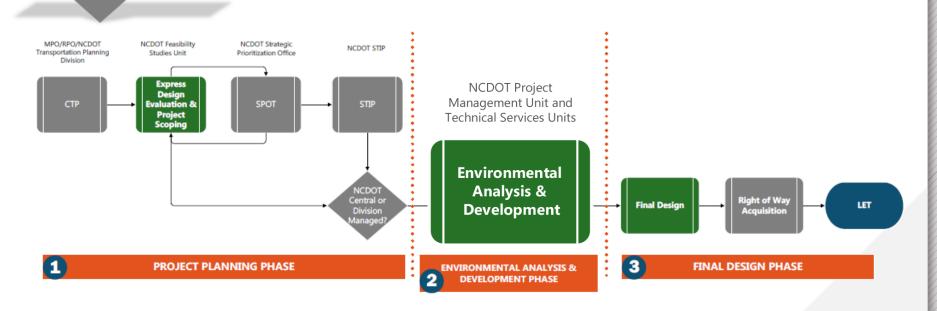
HOME

Symbology





#### Project Development Overview

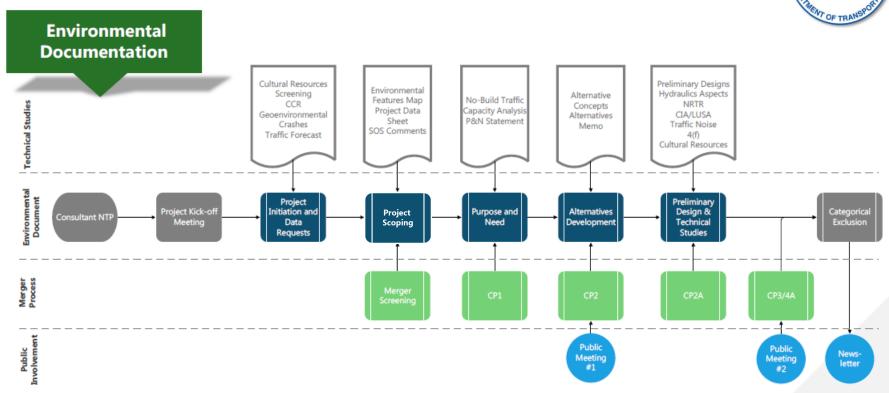


HOME

Symbology





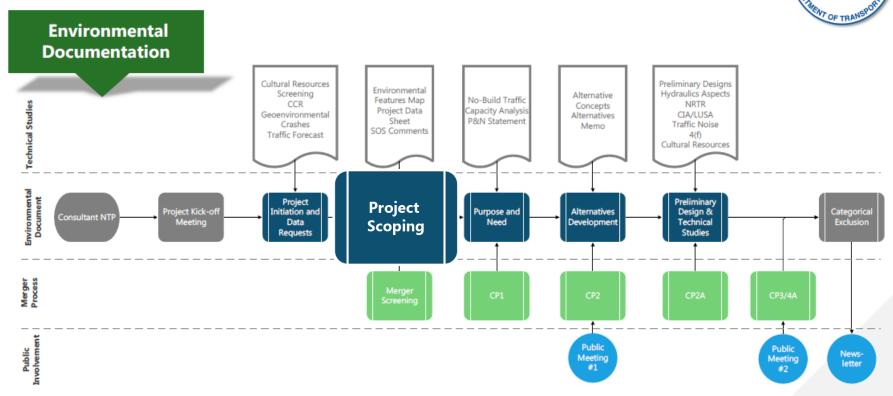


HOME

Symbology







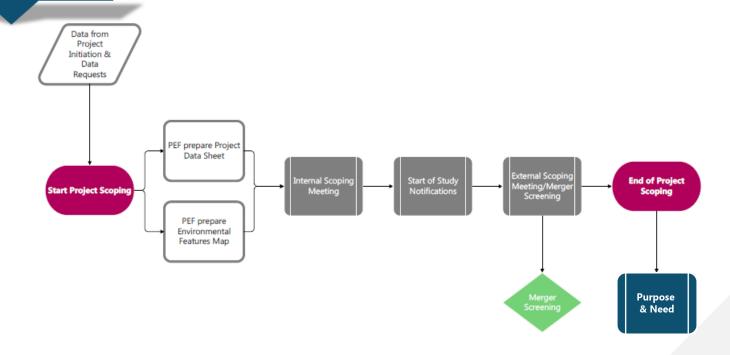
HOME

Symbology





#### **Project Scoping**



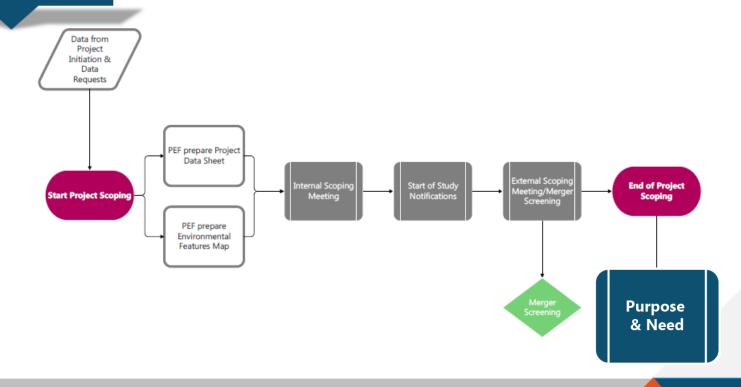
HOME

Symbology









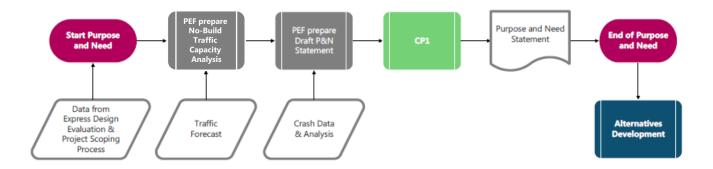
HOME

Symbology





**Purpose & Need** 



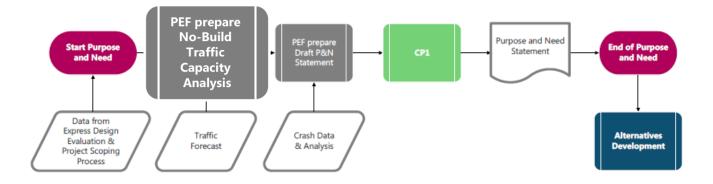
HOME

Symbology





**Purpose & Need** 

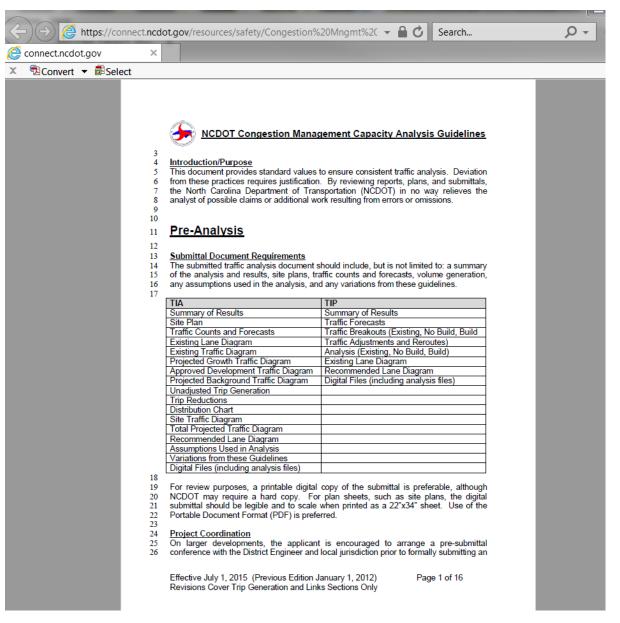


HOME

Symbology



This Example: Embedded hyperlink directs user to online guidance



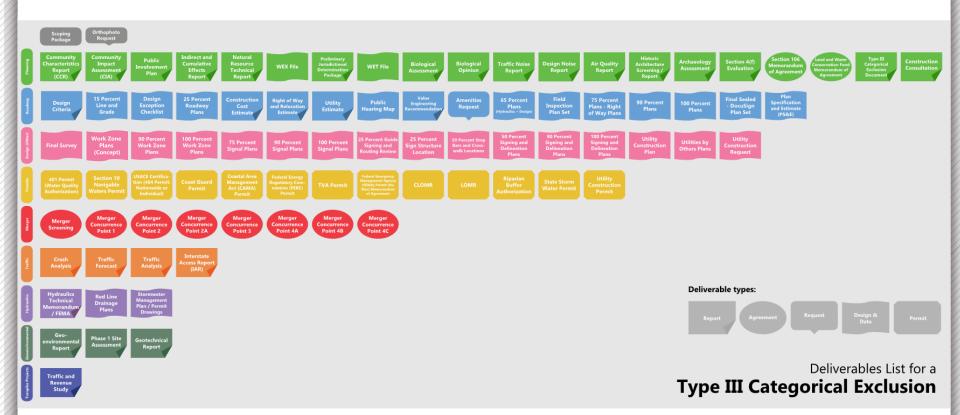
# 2. Deliverables Guide for Projects Covered by a Type III CE

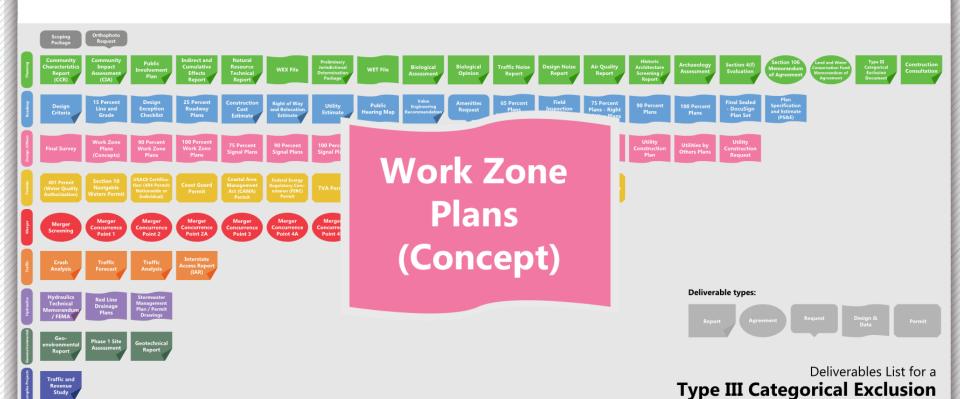
Purpose

Provide information on the required project deliverables needed to keep a project on schedule

Audience

- Project Managers
- Private Engineering Firm (PEF) Project
   Managers





# A Summary of the Deliverable is Shown

#### Work Zone Plans (Concept)

**Description:** Plans developed to lay out lane closure and other traffic control measures that will be undertaken during construction.

**Applicability:** Projects with over 7,500 ADT and either lane closures or detours (check with Work Zone Traffic Control Unit).

**Predecessor / Successor:** 25 Percent Plans, Environmental Document, may be done after 65 Percent Plans if hydraulics issues are complex / Field Inspection after 65 Percent Plans, 90 Percent Work Zone Plans

Developer: NCDOT or Consultant

Reviewer / Approver: Work Zone Traffic Control Unit

Review Timeframe: No regulatory requirement

 $\textbf{Where Stored on SharePoint:} \ \ \mathsf{Disciplines} > \mathsf{Work} \ \mathsf{Zone} \ \mathsf{Traffic Control} > \mathsf{WZ}$ 

Topic: PDF Plans

Common Issues: Make sure consistent with current roadway design and hydraulic

design; Congestion, bike and pedestrian effects

Suggested Improvements: To be added

**Return to Main Chart** 

# We are asking NCDOT staff to suggest ways to improve each deliverable

**Description:** Plans developed to lay out lane closure and other traffic control measures that will be undertaken during construction.

**Applicability:** Projects with over 7,500 ADT and either lane closures or detours (check with Work Zone Traffic Control Unit).

**Predecessor / Successor:** 25 Percent Plans, Environmental Document, may be done after 65 Percent Plans if hydraulics issues are complex / Field Inspection after 65 Percent Plans, 90 Percent Work Zone Plans

**Developer:** NCDOT or Consultant

**Reviewer / Approver:** Work Zone Traffic Control Unit

**Review Timeframe:** No regulatory requirement

Where Stored on SharePoint: Disciplines > Work Zone Traffic Control > WZ

Topic: PDF Plans

**Common Issues:** Make sure consistent with current roadway design and hydraulic design; Congestion, bike and pedestrian effects

**Suggested Improvements:** To be added

# 3. General Engineering Services Consultant (GESC) Guidelines

Purpose

Provide information on how project managers can use general engineering services consultants (GESCs)

Audience

**Project Managers** 

# **GESC** Roles

- Scope Development and Review
- Schedule Development and Administration
- Man-day Estimates
- Environmental Documents and Design Plan Reviews
- Project Management
- Supplemental Design Services

# GESC Products Still Under Development

- Scoping Level of Effort Guidance
- Scope of Services Templates
- Cost Estimating Guidance
- Negotiating Equitable Contracts Training

# Other Initiatives

- Project Management Roles and Responsibilities Manual
- Streamlined Project Development Process
   Map
- Project Management Guidelines

# Web Address

# **Connect NCDOT**

 https://connect.ncdot.gov/projects/Project-Management

# For More Information Contact:



Paul Steinman, P.E.

HNTB Transportation Group Director

Telephone: 919-424-0405

Email: psteinman@hntb.com